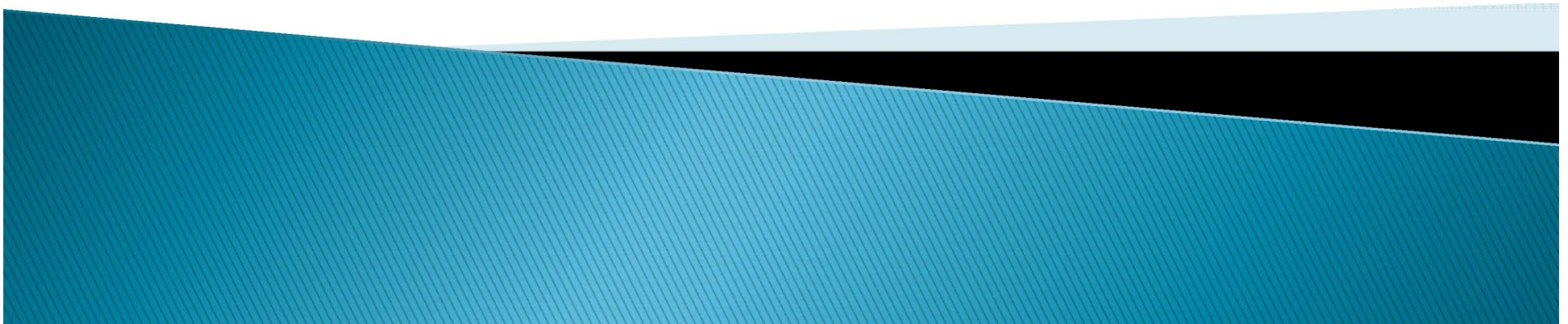
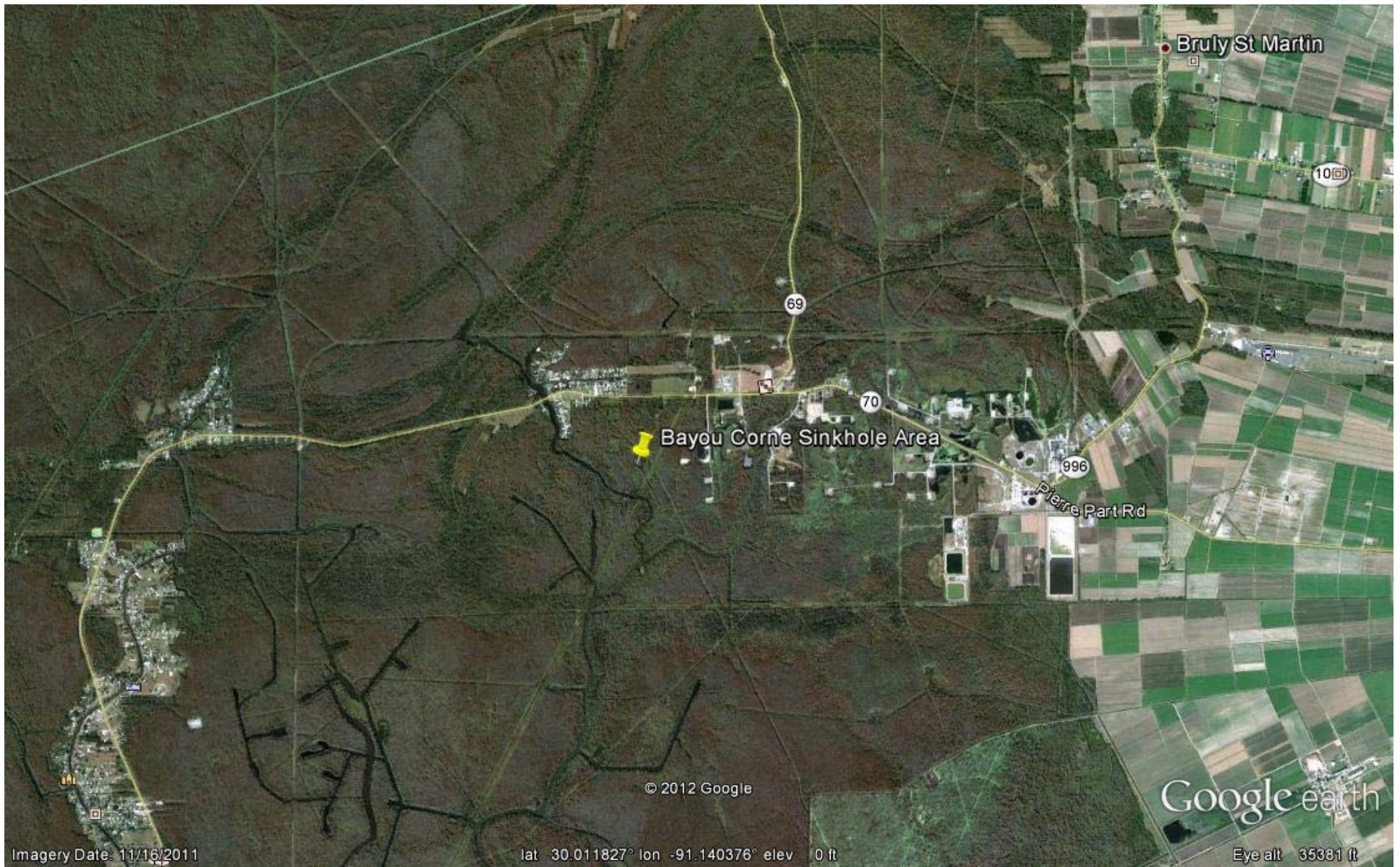
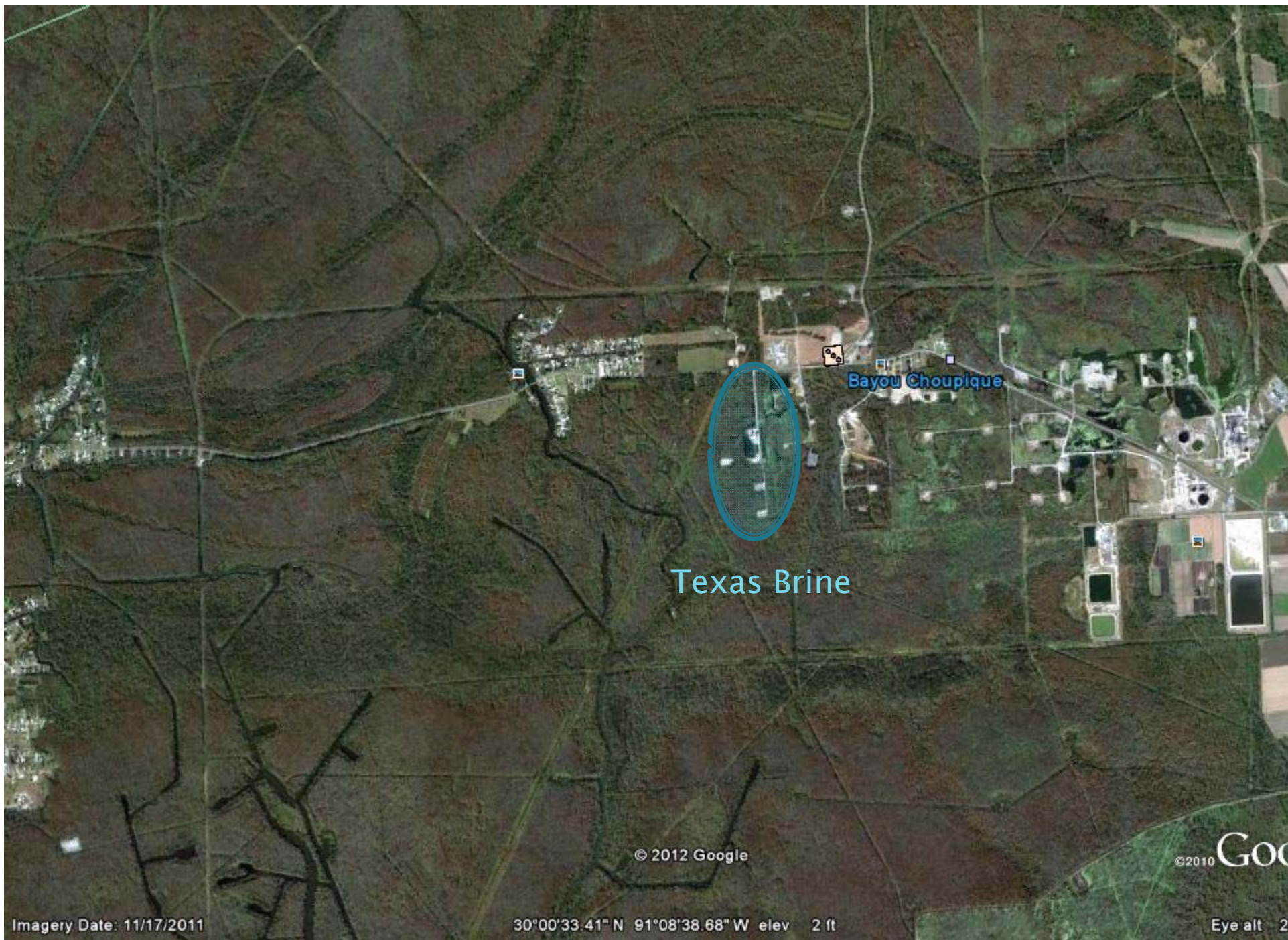


Aerials and monitoring locations Bayou Corne Sinkhole





Bayou Corne Sinkhole area



Texas Brine

Bayou Choupique

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Imagery Date: 11/17/2011

30°00'33.41" N 91°08'38.68" W elev 2 ft

Eye alt 2



Google earth

© 2012 Google



Sink hole and
Production pad

Bayou Choupique


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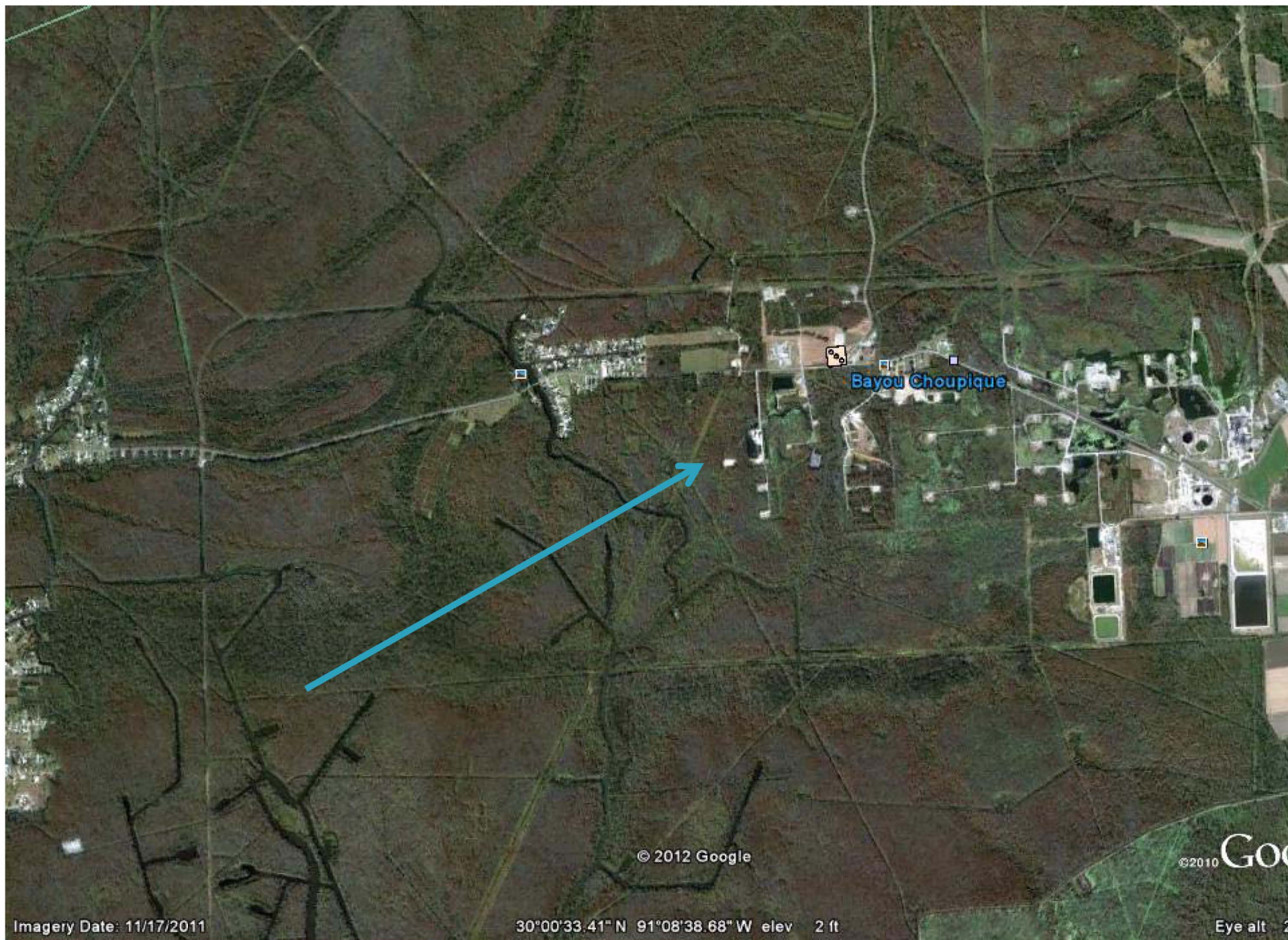
Imagery Date: 11/17/2011

30°00'33.41" N 91°08'38.68" W elev 2 ft

Eye alt 2

An aerial photograph showing a large, irregularly shaped sink hole in a forested area. The sink hole is filled with dark, murky water and has a yellow boundary line drawn around its perimeter. To the right of the sink hole is a cleared, light-colored area labeled as a 'Production pad', which contains some industrial equipment and a small building. The surrounding area is covered in dense green trees and vegetation. A blue and black decorative graphic is in the bottom left corner.

Sink hole and
Production pad



Bayou Choupique

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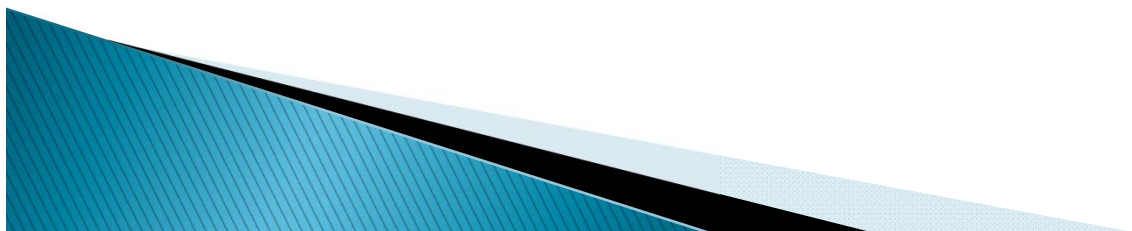
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30°00'33.41" N 91°08'38.68" W elev 2 ft

Eye alt 2



ASPECT

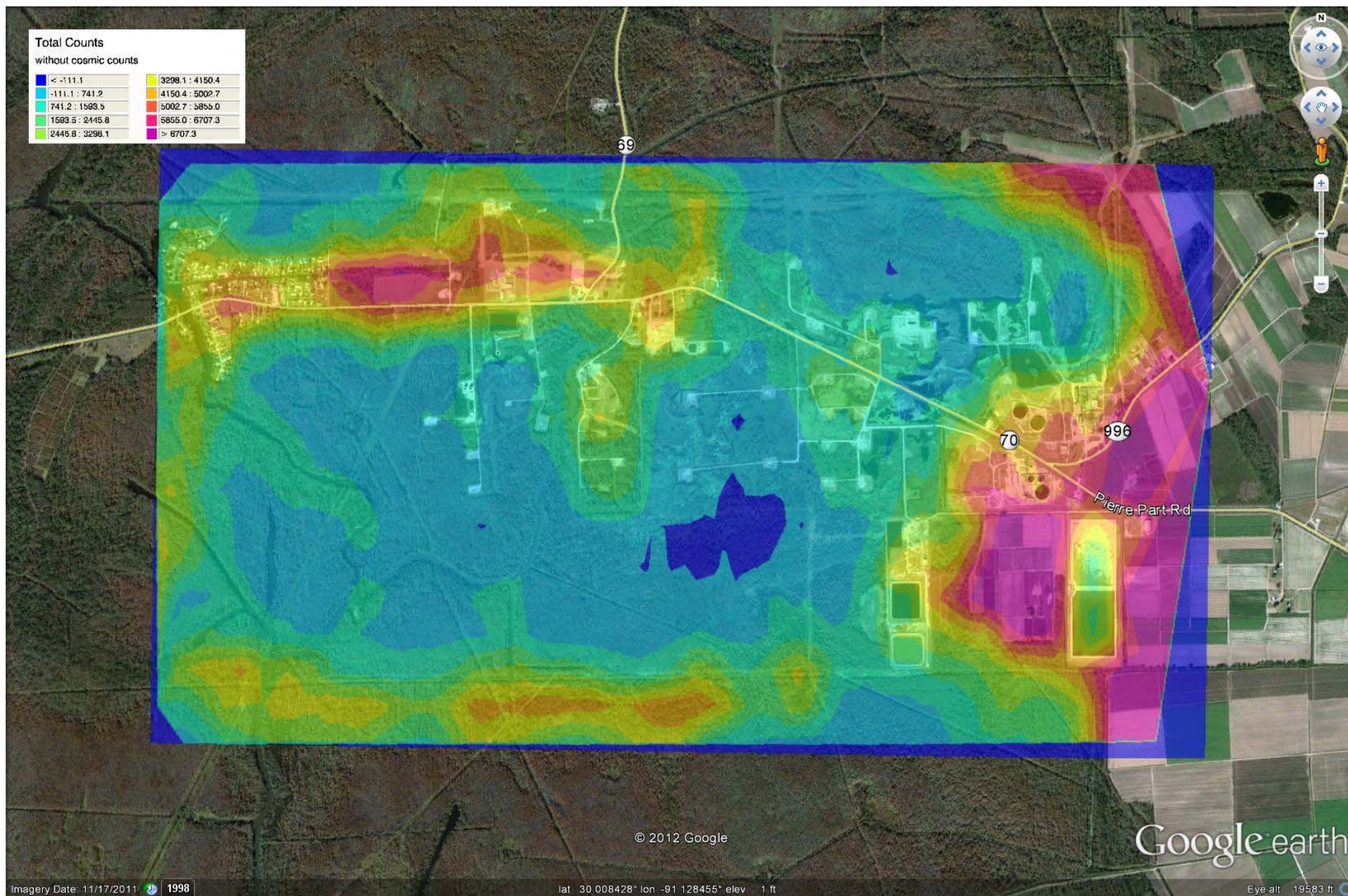




Chemical scan results

72 Chemicals built into the ASPECT automated detection algorithms

Acetic Acid	Cumene	Isoprene	Propylene
Acetone	Diborane	Isopropanol	Propylene Oxide
Acrolein	1,1-Dichloroethene	Isopropyl Acetate	Silicon Tetrafluoride
Acrylonitrile	Dichloromethane	MAPP	Sulfur Dioxide
Acrylic Acid	Dichlorodifluoromethane	Methyl Acetate	Sulfur Hexafluoride
Allyl Alcohol	Difluoroethane	Methyl Ethyl Ketone	Sulfur Mustard
Ammonia	Difluoromethane	Methanol	Nitrogen Mustard
Arsine	Ethanol	Methylbromide	Phosgene
Bis-Chloroethyl Ether	Ethyl Acetate	Methylene Chloride	Phosphine
Boron Tribromide	Ethyl Formate	Methyl Methacrylate	Tetrachloroethylene
Boron Trifluoride	Ethylene	MTEB	1,1,1-Trichloroethane
1,3-Butadiene	Formic Acid	Napthalene	Trichloroethylene
1-Butene	Freon 134a	n-Butyl Acetate	Trichloromethane
2-Butene	GA (Tabun)	n-Butyl Alcohol	Triethylamine
Carbon Tetrachloride	GB (Sarin)	Nitric Acid	Triethylphosphate
Carbonyl Chloride	Germane	Nitrogen Trifluoride	Trimethylamine
Carbon Tetrafluoride	Hexafluoroacetone	Phosphorus Oxychloride	Trimethyl Phosphite
Chlorodifluoromethane	Isobutylene	Propyl Acetate	Vinyl Acetate



Total Gamma Count



An Infrared Image



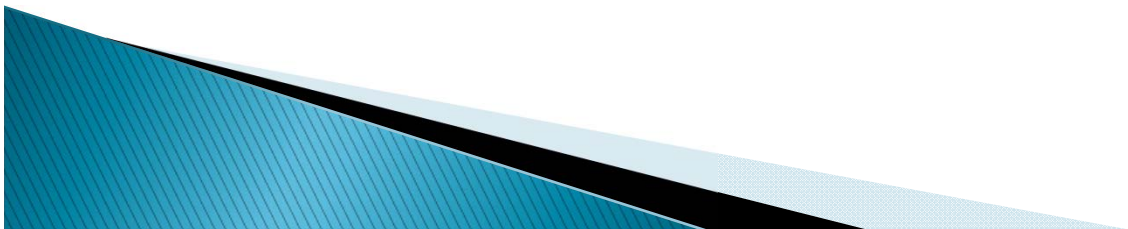


6.0 Conclusions

ASPECT was dispatched to conduct a chemical, radiological and photographic survey over and surrounding the Corne Bayou sinkhole and arrived on scene at 1350 on August 25, 2012. A total of 16 FTIR data collection passes were conducted over the area with none showing detectable concentrations of natural gas (methane) or other compounds contained in the ASPECT library.

A 17 line radiological survey was likewise conducted over the same region and was analyzed for both total gamma count and excess uranium due to possible TENORM disposal in the salt dome caverns. Results of the total count analysis showed slightly elevated levels on the north and east side of the survey area but well within normal sedimentary rock levels. An excess uranium analysis showed isolated elevated sigma values on the eastern portion of the survey due most likely to fertilizer usage. Total count and excess levels over and near the sinkhole were within in normal levels.

16 infrared images were collected over the survey area and did not show any chemical signatures or plumes being emitted from the sinkhole. It was noted that the infrared character of the water surface over the sinkhole is different than the surrounding water in the swamp suggesting that a petroleum film is present on top of the water in the sinkhole.



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